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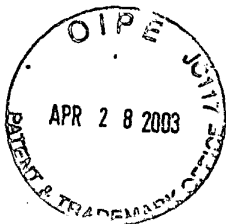
Fig. 1



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Fig. 2a



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HS-HMC-Dis3	102	APV	-----YKRIRDVTNNQEK-----HFYFTTNELHRETYVEEQEENANDRND	141	151	161	171	181	191	201
MM-hmc-Dis3	102	API	-----YKRIRDVTNNQEK-----HFYFTTHVHHKETYIEQEQEENANDRND							
CE-Q17632-Dis3	111	VPA	-----YKMNSLCYEDAK-----DRFHVFMNEFHCTFSESSKFEDLS-RGE							
SP-P37202-Dis3	122	IPL	-----YNRMKRLCQEK-----K-RFTPPFSNEFFVDTFVERLDDDESANDRND							
SC-Q08162-Dis3	125	YPV	-----YTRLRLTLCRDSDDHK-RFIVFHNEFSEHTFVERLPNETINDRND							
MM-LOBO	23	GPS	-----AVGASPGDKKSKNKSMRGKKKSI FETYSKEDVSEGLKRGTLIQ							
HS-LOBO	0		-----							
CE-Q09568-LOBO	16	KP	-----QNANLQNNFNPRKIFTEYISKEETDAGIEDGSMFK							
SP-Z99259	63	KDI	-----VORPTDTQLKGQD-----SNHKKASLTETKTEKAKVKPKAKKNSK							
SC-P24276-SSD1	140	NPGSN	SHRKTSSQSSIIYGHSSRHSLSGLNEAKKAAAEQAKRISGGEAGVTVKIDSVQADSGSNTTEQSD							
SC-P39112	124	KP	-----KIPLYKLINSDFQLITKLKAPNPMEFQPVQLMESPLNVGDFVL							
			-----	141	151	161	171	181	191	201
HS-HMC-Dis3	146	RAIRVAAKWYNEHLKKMSADNQLQVIFITND	-----RRNKEK							
MM-hmc-Dis3	146	RAIRVAAKWYNEHLKRVAADSQVILITND	-----RKNKEK							
CE-Q17632-Dis3	155	ELLSTALYLKTHWQKHVA-PVVLVFEDES	-----KKRMEN							
SP-P37202-Dis3	166	RAIRNAASWFASHLASLGK-----IVLLTDD	-----RENARL							
SC-Q08162-Dis3	171	RAIRKTCQWYSEHLKPYDIN-----VVLVTNDRLN	-----REAAATK							
MM-LOBO	70	GVLRLNPKKFHEAFIPSPDGD-RDIFIDGVV-A	-----RNRALN							
HS-LOBO	0		-----							
CE-Q09568-LOBO	54	GVLRLNPKNYQECFLDHPKGTNHPDVLVLGQ--D	-----RNRAMQ							
SP-Z99259	107	EKISKSSK-QDEHKTDVHKES-----VSKLSKNLES	-----RNNRDE							
SC-P24276-SSD1	210	FKFPPPPNAHQHRRATSNLSPPSFKFPPNSHGDNDDDEFIATSSTHRRSKTRNNEYSPPGINSNWRNQSQQ	-----MCFATK							
SC-P39112	169	LKMRLNELAMCVSLPSSTMDPRYTFVTIDGT	-----							
			-----	211	221	231	241	251	261	271

Fig. 2b



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HS-HMC-Dis3	183	AIQEGIPAF	TCEEYVKT	LT	----	ANPELIDRL	ACLSEEGNE	IES	----	GKIIFSEHL	PLSKL	
MM-hmc-Dis3	183	AVQEGIPAF	TCEEYVKS	LT	----	ANPELIDRL	AYLSDEME	NEIES	----	GKIIFSEHL	PLSKL	
CE-Q17632-Dis3	191	HYQH----	VMYLKEYI	QNLEDP	----	GKQALLDQ	MAAYESSG	NGNE	----	KQIFDEYL	SHDRI	
SP-P37202-Dis3	199	AAEQGIQV	STLKDYVQ	YLP	----	DSEILLDM	VSAIADAI	ASKEQVES	----	GTKNVYEL	HWSMSRL	
SC-Q08162-Dis3	207	EVESNIIT	KSLVQYIE	LLP	----	NADDIRDS	IP-QMDSF	DKDLERDT	----	FSDFTFPE	YYSTARV	
MM-LOBO	107	GDLVVVK	LLPEDQW	KAVKP	----	E	----	SNDKEIEAT	YEADIPE	----	EGCGHHPL	
HS-LOBO	0	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
CE-Q09568-LOBO	92	GDVVAVK	IKPKEDW	LNVV	----	E	----	YVKWVAEH	----	-----	-----	
SP-Z99259	143	NSAK----	REKNNSHQ	VEADT	----	NN	----	ATEMVSSNA	KKS	----	VYPLYYDSATV	
SC-P24276-SSD1	280	PQQQLSP	FRHRGNS	RDYNSFNT	LEPPAIF	QQGHK	HRASSNV	HSFSSQGN	NNNGGRK	SLFAPYLP	QANIL	
SC-P39112	206	NRVLLRI	PHKLPAGI	HSLI	----	QPESHKH	HLPIGT	VKNFSNQT	N	----	ILPIVARQLITSRY	
		-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	
	281	-----	291	301	311	321	331	341				
HS-HMC-Dis3	237	QQGIKSG	TYLQGTFR	ASRENYLEAT	VWIHGD	NNEENKE	ILIQGLK	HLNR	AVHEDIV	AVELLPKS	-QWVAPS	
MM-hmc-Dis3	237	QQGIKSG	SYLQGTFR	ASRENYLEAT	VWIHGD	KKEEKE	ELIQGLK	HLNR	AVHEDIV	AVELLPRS	-QWVAPS	
CE-Q17632-Dis3	242	MEGIASG	TIKRGNF	SVSRENYREAT	VIID	----	DQLTSWF	ITG-NNCN	RAVNGDT	VAVQLLPED	-QWTAPE	
SP-P37202-Dis3	257	LACIKNG	EVHKG	GLINISTV	NYLEGS	VVVP	----	GYNKPV	LVSGREN	LNRAVQGD	IVCIQILPQD-QWKTEA	
SC-Q08162-Dis3	264	MGLKNG	VLYQGN	IQISEYN	FLEGS	VS	LP	----	RFSKPV	LIVGQK	LNRAFN	GDQVIVELLPQS-EWKAPS

Fig. 2c

Fig. 2d

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Fig. 2e



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HS-HMC-Dis3	405	PRNSRYPNGHFNGLDVGEKETETEVLSLEHDPVHQPFQAVLSFLP---	KMPWS---	ITEKDM
MM-hmc-Dis3	405	PRNSRYPNGHFNGLDVGEKETETEVLLLEHDPVHQPFQAVLSFLP---	RMPWS---	ITEEDM
CE-Q17632-Dis3	414	PRDSKYPLGHVRSIGEMGSRTEVLLLEHDI PHAPFSESVDCLP---	REEWEPD---	LTENRG
SP-P37202-Dis3	428	DASSRYPEGHFVRDLGEMETKEAETEAALLLEHDPVHRPFPKAVLDCLP---	GHNWKVP---	ADKTH
SC-Q08162-Dis3	456	PTHKYPLGHFVRDLGTIESAQAEAEALLLEHDPVEYRPFSSKVLCECLPAE---	GHDWKAPT---	KLDDPEAVSKD
MM-LOBO	306	KEDCNFALGQAKSLGAGEIEPETEGILTEYGVDFSDFSSEVLECLPQS---	LPWTIP---	PDEV
HS-LOBO	0	-----	-----	-----
CE-Q09568-LOBO	237	RAESVYADGRLVKLLGMSGEIDTETERIVYEHQIDHREFSDECLSPITTAENWKVP---	-----	DAEF
SP-Z99259	379	SIYSRYPMGVLGEKLGNTDVEAYTNALLLENGISSPPSDEVNCLP---	PDDWIIIS---	HEEI
SC-P24276-SSD1	624	PITSLHPFGILVSELGDIHDPDTEIDSILRDNFLSNYLDQKNPQKEKPSFQPLPT---	-----	AESL
SC-P39112	443	LISKIFRKIERKDCDITRDICQDLINEITPNSIPNPLLNMDLALPASSKLKWKQKLYDLTNIEELQW	-----	-----
	631	-----	661	671
	641	-----	681	691
HS-HMC-Dis3	464	KN-----REDLRHLICSVDPGCTDIDDLHCRELEN-----	GN---	LAVGVHIADVSHFIRLGNALDQE
MM-hmc-Dis3	464	KN-----REDLRHLVCVSDPPGCTDIDDLHCRELSN-----	GN---	LEVGVHIADVSHFIRPGNALDQE
CE-Q17632-Dis3	475	PLP-----RVDLRDLTICSVDPGLGCTDIDDLHCKQIGE-----	DL---	FEVGVHIADVTHFVRPGTAIDDE
SP-P37202-Dis3	490	PLWKN-----RKDFRDKLICSIDPPGCGQDIDDLHACVLPN-----	GN---	YEVGVHIADVTHFVKPNTSMDSE
SC-Q08162-Dis3	525	PLLTG-----RKDLRDKLICSIDPPGCVDDIDDLHAKKLPN-----	GN---	WEVGVHIADVTHFVKPGTALDAE
MM-LOBO	366	GK-----RRDLRKDCIFTIDPSTARDLDDALACRRLTD-----	GT---	FEVGVHIADVSFVPEGSSLDKV
HS-LOBO	0	-----KDCIFTIDPSTARDLDDALACRRLTD-----	GN---	FKVGVHIADVSFVPEGSSLDKV
CE-Q09568-LOBO	299	EY-----RRDFRSDIVFTIDPKTARDLDDALHAKHIDDCGKTPGLEIGVHIADVTHFVKPNTSMDSE	GT---	YEVGVHIADVTHFVKPNTSMDSE
SP-Z99259	438	KK-----RRDLRNLITIDPETARDLDDAVSCRALDN-----	GT---	YEVGVHIADVTHFVKPNTSMDSE
SC-P24276-SSD1	686	EYRN-----FTDTNEYNIFAISELG-WVSEFALHVRNNGN-----	GT---	LELGCHVVVDVTHFVKPNTSMDSE
SC-P39112	513	KKSGTDDDRYDFGLRVFCIDSETAHEIDDGVSVKNYGR-----	DGL---	YTLXIHIAADPTSMFPESNTNVDIE
	701	-----	731	741
	711	-----	751	761

Fig. 2f



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HS-HMC-Dis3	522	-----SARRGTTVYLCEKRRIDMVPPELLSS--NLCSLKCDVDRDLAFSCIWEMNHNA-----EILK
MM-hmc-Dis3	522	-----SARRGTTVYLCEKRRIDMVPPELLSS--NLCSLRSNVDRDLAFSCIWEMNHNA-----EILK
CE-Q17632-Dis3	534	-----AALRGTTVYLCDDRIDMLPCLLSS--NLCSLRGEEERYAFSCIWTMTSSA-----DIQS
SP-P37202-Dis3	551	-----AASRGTTVYLVDRIDMLPMLLGT--DLCSLRPYVERFAFSCIWEMDENA-----NIIK
SC-Q08162-Dis3	586	-----GAARGTSVYLVDRIDMLPMLLGT--DLCSLKPVYVDRFAFSCIWELDDSA-----NIVN
MM-LOBO	424	-----AAERATSVYLVQKVVPMLPRLCE--ELCSLNPMTDKLTFSVIWKLTPEG-----KILE
HS-LOBO	51	-----AAERATSVYLVQKVVPMLPRLCE--ELCSLNPMSDKLTFSVIWTLTPEG-----KILD

Fig. 2g



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CE-Q09568-LOBO	363	-----ASERGNSTYLSQTVIPMLPRILCE--QLCSLNPVGVDRLSFSTVFKMSYEA-----ELYD	771	781	791	801	811	821	831
SP-Z99259	496	-----AASRATTVYLQKAIPLPPLICE--RLCSLNPVNVERLAFSVFWKLDNGK-----EIGK							
SC-P24276-SSD1	746	-----ARKRSSAVFMPQKLVNLLPQSFN--DELSLAPGKESATLSVVYTLDSSTL-----RIKS							
SC-P39112	578	GISTDILNVALKRSFTTYLPDTPVPMPLPQSICHLSDLGKQGTITISFSVDVKITSCSGKSIIEIMYDS							
		----- ----- ----- ----- ----- ----- ----- ----- ----- -----							
		771	781	791	801	811	821	831	
HS-HMC-Dis3	574	TKFTKSVINSKASL-YAEAQLRIDSANMND-----DITTSRLGNLKLAKILKKRRIENGA							
MM-hmc-Dis3	574	TRFTKSVINSKASL-YAEAQMRIDSAAMND-----DITTSRLGNLQNLAKILKKGRIEKGA							
CE-Q17632-Dis3	586	VKYHKSILKSKAALTVEKAQEIIDDPKEQN-----DVALGLRGLMKLSKVLNARRTGNGA							
SP-P37202-Dis3	603	VHFTKSVIASKEAFSYADAQARIDDKMQD-----PLTQGMRVLLKLSKILKQKRMDEGA							
SC-Q08162-Dis3	638	VNFMKSVIRSREAFSVEQAQLRIDDKTQND-----ELTMGMRAALLKLSVKLKQKRLEAGA							
MM-LOBO	476	EWFGRTIIRSCTKLSYDHAQSMIENPTEKIPEEELPPI SPEHSVEEVHQAVLNLSIAKQLRRQRFVDGA							
HS-LOBO	103	EWFGRTIIRSCTKLSYEHQAQSMIESPTEKIPAKELPPI SPEHSSEEVHQAVLNLSHIAKQLRQRFVDGA							
CE-Q09568-LOBO	415	VWFGRSVIRSRVKLAYEHQAQDFIENPEKDFTCDELPSIDGNTTPEIKEKTLMLHRIAQVLRQKREDSGA							
SP-Z99259	549	RWFGKTVIKTCARLAYSEAQGVIEGKSWDDAVG--KPIGGTHTPKDVTESILTCEISRKLKDRFAKGA							
SC-P24276-SSD1	798	TWVGESTISPSNLSLEQLDEKLSTGSPTS-----YLSVTQVEIARSFYARRINDPE							
SC-P39112	648	FKIRKGIVSNFPKATYEDVDRILGTPNSEAS-----PVKKDLESLSMISKLLREQRIKNSN							
		----- ----- ----- ----- ----- ----- ----- ----- ----- -----							
		841	851	861	871	881	891	901	

Fig. 2h



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HS-HMC-Dis3	628	LTLSSPEVTFHMDSETHDPI	DLOTKELRETNSMVEEFM	LLANISVAKKIHEEFSEHALLRKH	PAPPPSNY			
MM-hmc-Dis3	628	LTLSSPEVTFHMDSETHDPI	DLOTKELRETNSMVEEFM	LLANISVAKKIHEEFSEHALLRKH	PAPPPSNY			
CE-Q17632-Dis3	641	LTLASSEVRFMDWESRTP	PKKMEKQHLDTSHMVEEFM	LLANISVAEKILEEYDCALLRRHPVPLKESY				
SP-P37202-Dis3	658	LNLASPEVRIQTDNETSD	PMDEIKQLLETNSLVEEFM	LLANISVAQKIYDAFPQTAVLRRHAAPPLTNF				
SC-Q08162-Dis3	693	LNLASPEVKVHMDSETSD	PNEVEIKLLATNSLVEEFM	LLANISVARKIYDAFPQTAMLRRAAPPSSTNF				
MM-LOBO	546	LRLDQLKLAFTLDHETGL	PQGCCHIYEYRDSNKLVEEFM	LLANMAVAKIFRTFPEQALLRRHPPPTKML				
HS-LOBO	173	LRLDQLKLAFTLDHETGL	PQGCCHIYEYRESNKLVEEFM	LLANMAVAKIHRAFPEQALLRRHPPPTKML				
CE-Q09568-LOBO	485	LRIELPRLKAFALDEK-	KPQGVSVIYEIKDSNKLVEEFM	LLANMEVAKKIAENFPEHALLRNHPPPKCKMI				
SP-Z99259	617	VEINSTEKFKQLDEYG-	MPNKCEVEYEQTDANHLIEEFM	LLANRSVAEHISKNFNSNLSLLRRHASPKEKQI				
SC-P24276-SSD1	849	ATLLPTLSLLESLLDDEK	VVDNLNDRTLGLFVVINEIKRKVNSTVAEKI	YTKLGLDALLRRQMOPITKM				
SC-P39112	704	AVIFGEGFNKGLVMLN	-----ADSEGELTEVTFS	DQEEETLSTILVSEMMILANTLTGRYFAEN	-----KI			
		911	921	931	941	951	961	971
HS-HMC-Dis3	698	EILVKAARS-RNLEIKTD	PAKSLAESLDQAESPTFP	YLN--TLLRILATRCMMQAVYFCSGMD	-----			
MM-hmc-Dis3	698	DILVKAARS-KNLQIKTD	PAKSLADSLDRAESPD	FPYLN--TLLRILATRCMMQAVYFCSGMD	-----			
CE-Q17632-Dis3	711	KPLVEAARH-RGFEI	IVESGKGLADSLNRCV	DKKNPMLN--RLLRMLTTRCMTQAVYFSAGKDGFSDIKL				
SP-P37202-Dis3	728	DSLQDILRVCKGMHLK	CDTSKSLAKSLDECVD	PKPEYFN--TLLRILTTRCMLSAEYFCSGTFAP	-----			
SC-Q08162-Dis3	763	EILNEMLNRKNMSIS	LESSKALADSLDRCVD	PEDPYFN--TLVRIMSTRCMMAAQYFYSGAYS	-----			
MM-LOBO	616	SDLVEFCDO-MGLPMD	VSSAGALNKSITKT	FGDDKYSLARKEVLTNMYSRPQMALYFCSGMLQD	-----			
HS-LOBO	243	SDLVEFCDO-MGLPMD	VDFSSAGALNKSIT	QTFGDDKYSLARKEVLTNMYSRPQMALYFCSGMLQD	-----			
CE-Q09568-LOBO	554	KDVAEQCAR-IGFPLD	GRTSGLLSTSLRKYQ	KSRLDMCIRQVSSLTIKPMQAKYFCT--FEM	-----			
SP-Z99259	686	NEFCHFLKS-MNFD	FDASSAAFNASMVRL	STFNEELV--ELFENMAVRSNLNRAEYFCTGDFGEK	-----			
SC-P24276-SSD1	919	ASFRKKION-FGYN	FDNTADELIKGV	LKIKDDVRVGI-----EILLFKTMPRARYFIAGKVD	-----			
SC-P39112	764	GGVFRCKYQ--LPL	GEVAQQQYDSMIT	STKKGIFPKLK-----DIVKLSLLNSSFYTGPRFR	-----			
		981	991	1001	1011	1021	1031	1041

Fig. 2i



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Fig. 2j



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HS-HMC-Dis3	835	QLFFKSKG-----IVSEEAYILFVRKNAIVVLIIPKYGLEGTVPFFEEKDPNPQLI-----
MM-hmc-Dis3	835	QLFFKSKG-----IVSEEAYILFVRKNAIVVLIIPKYGLEGTVPFFEEKDKPKPRLA-----
CE-Q17632-Dis3	918	VRYFKGK-----VETCEGFVMGVRNNGIQVFVPKYGLESIIVLQTSASG--TT-----
SP-P37202-Dis3	868	GQALKGG-----VAEEDAYVIVKVFKNNGFVVFIAKFGLGIVYTKSLSSVLEPN-----
SC-Q08162-Dis3	903	GQVMRNN-----ESTETGVVIVKVFKNNGIVVLPKFGVEGLIRLDNLT--EDPNS-----
MM-LOBO	756	AVLVKESG-----PLESEAMVMGVNLQAFDVLVLRFGVQKRIYCNALALRSYSFQ-----
HS-LOBO	383	AVLVKESG-----PLESEAMVMGILKQAFDVLVLRFGVQKRIYCNALALRSYHFQ-----
CE-Q09568-LOBO	693	GVFTHQTG-----PMKCQAVVLGVMDLSFDVLIIVEYGWVKRVVVDKMKR----DFN-----

Fig. 2k



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SP-Z99259	823	SVYLAECYCKKHKKMPVQAFATRISGNSIDVYISEYGISNRVDLSSDDR-IKSF	1191	1201	1211	1221	1231	1241	1251
SC-P24276-SSD1	1052	CKTINDMGNTTG--QLLTMTATVLQVYESSFDVFIPEFGIEKRVHGQDQLPLIKAEDGCTNRVLELHWQPGV							
SC-P39112	890	LNVLKLL-----TKLEPERTFDMMVT-----SVPQNGFTGCVFPDLSFARGTLK-----							
			1191	1201	1211	1221	1231	1241	1251
HS-HMC-Dis3	885	-----YDDEIPSLKIED-TVFHVFDKVKVKIMLDSSNLQHQKIRMSLVEPQIPGIS							
MM-hmc-Dis3	885	-----YDDEIPSLRIEG-TVFHVFDKVKVKITLDSSNLQHQKIRMAIVEPQIPGIN							
CE-Q17632-Dis3	965	-----IDVEEMSVKVGNDWVWIKELPEVTVRISVNEKNQQRPRVELQLIKPAIPGLS							
SP-P37202-Dis3	916	-----VEYVEDEYKINI--EIRDQPKPQT---VQIQMFQQVRVRVTVRDEHSGKQ							
SC-Q08162-Dis3	950	-----AAFDEVEYKLTFF--VPTNSDKPR-----DVYVFDKVEVQVRVMDPITSKR							
MM-LOBO	806	-----KVGKKPELTLVWEPD-DLE---EPTQQVITIFSLVDVVLQAEATALKYSA							
HS-LOBO	433	-----KVGKKPELTLVWEPE-DME---QEPAQVITIFSLVEVVLQAEATALKYSA							
CE-Q09568-LOBO	740	-----KSTK--LTIYWPADPNABSGNREEFSSSIQMCNVVYVIL-VPYKSIEVSA							
SP-Z99259	878	-----VAPDDSSVKITL---FDDS---Q-K---TIALTDRFQVYLYSDYSRTFFSI							
SC-P24276-SSD1	1120	DSATFIPADEKNPKSYRNSIKNKRSTAAEIANIELDKAESEPLISDPLSKELSDHLHTVFNLRPLPSAS							
SC-P39112	934	-----LHPSSMHYPMIG-----DIVKNCKISKIDCLEGMLELEKL-----							
			1261	1271	1281	1291	1301	1311	1321

Fig. 2I



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HS-HMC-Dis3	935	IPTDTS----	NMDLNGPKKKKMKLGK-			
MM-hmc-Dis3	935	IPPNVA-----	-DKALTAPGGKKRKLEK-			
CE-Q17632-Dis3	1016	V-----	-DFDLSSSEG--LGL-			
SP-P37202-Dis3	962	K---V-----	-QITLVY-----			
SC-Q08162-Dis3	994	K----A-----	-ELLJK-----			
MM-LOBO	853	ILKRPG-----	-LEKASDEEPED-----			
HS-LOBO	480	ILKRPGTQGHLCPEKEEESDGEPEDSSTS	-----			
CE-Q09568-LOBO	788	TIVRPS-----	LEQRNKLSTLKMKETGSTILO-			
SP-Z99259	919	R-----	-CSLVSLN-----			
SC-P24276-SSD1	1190	DNQNAALEKFISTETRIENDNYIQEIHELQKIPIILLRAEVGMALPCLTVRALNPFMKRV	-----			
		----- ----- ----- ----- ----- ----- ----- -----				
	1331	1341	1351	1361	1371	1381



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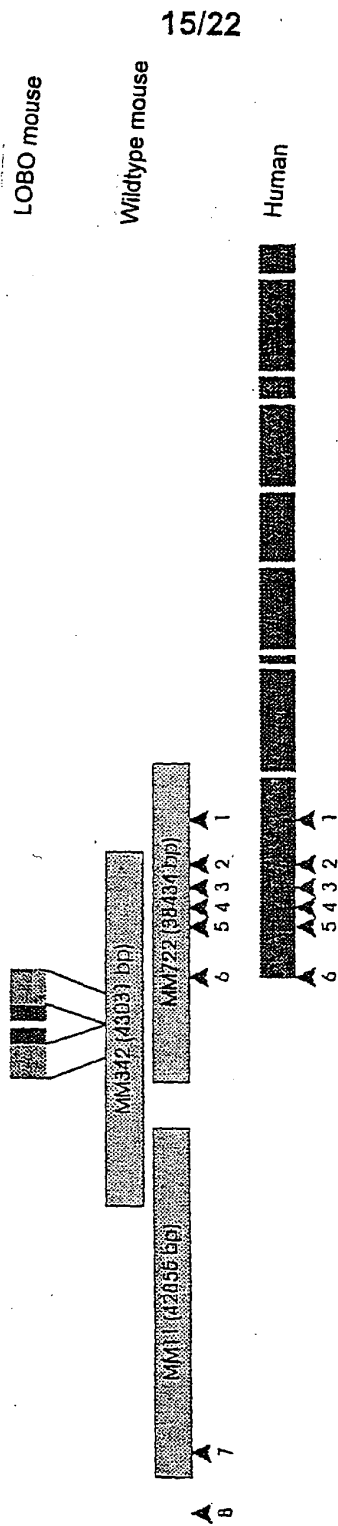


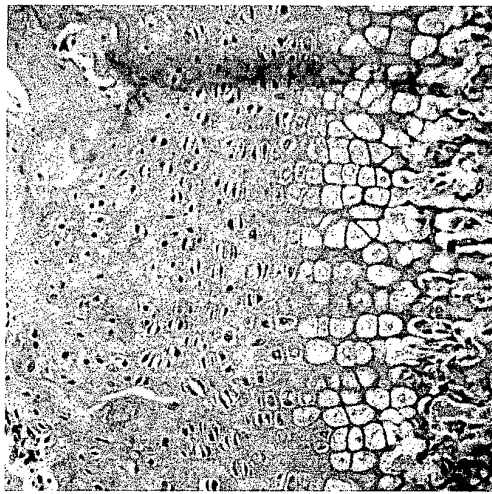
Fig. 3

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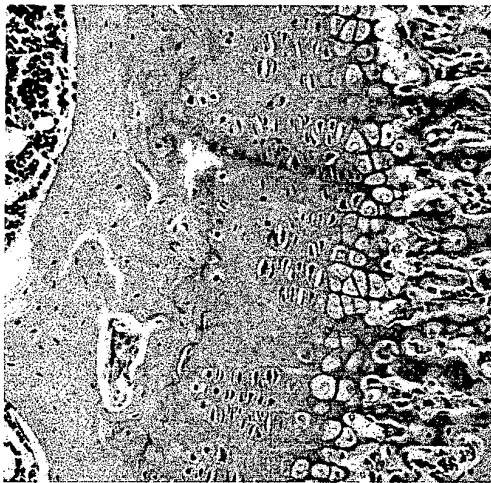
LOBO



Proliferative
Zone

Hypertrophe
Chondrozyten

WT



Proliferative
Zone

Hypertrophe
Chondrozyten

Fig. 4



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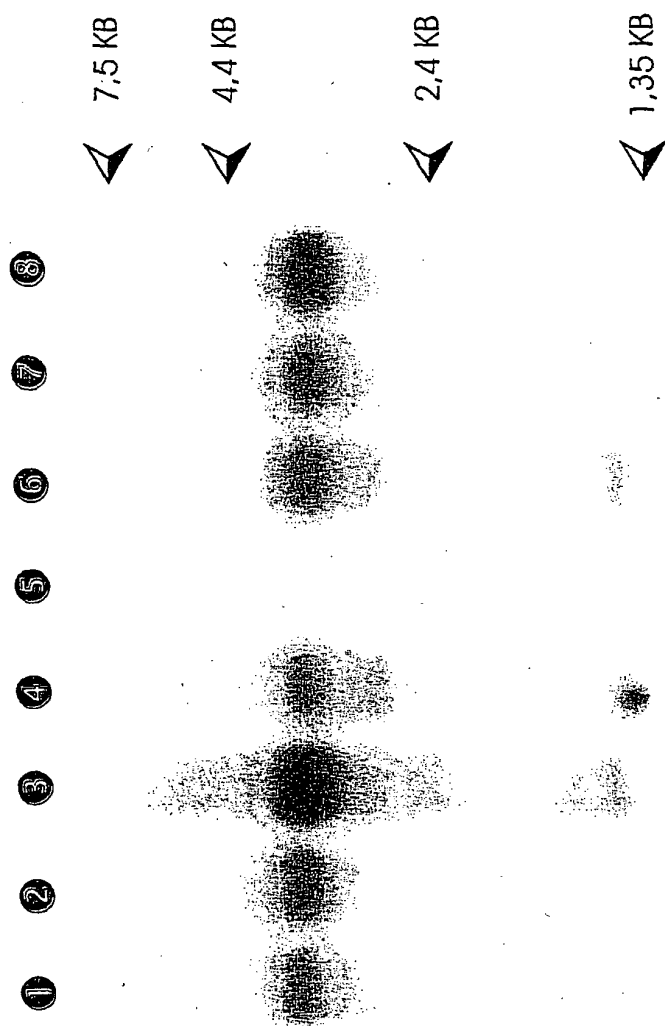


Fig. 5



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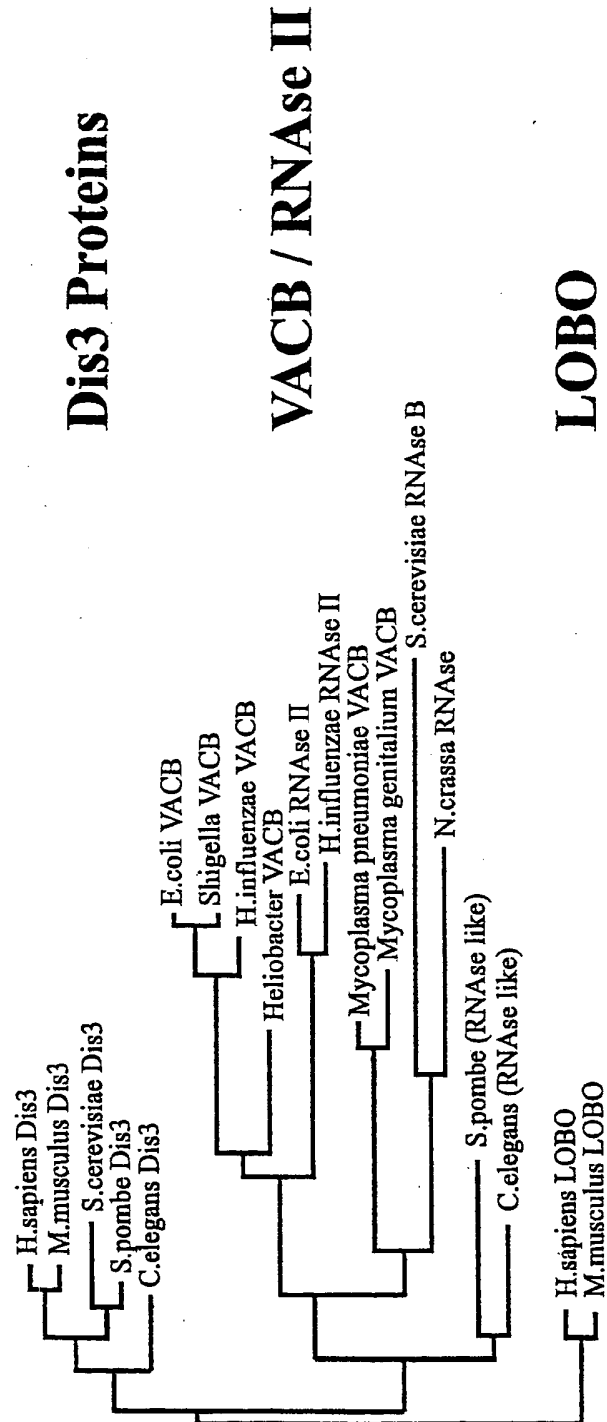


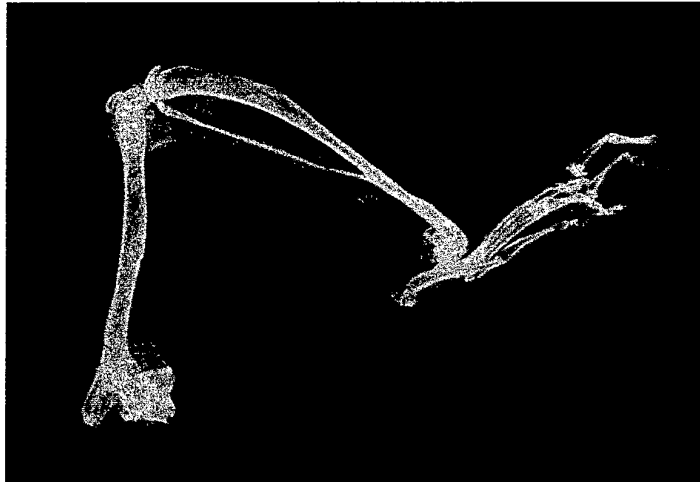
Fig. 6

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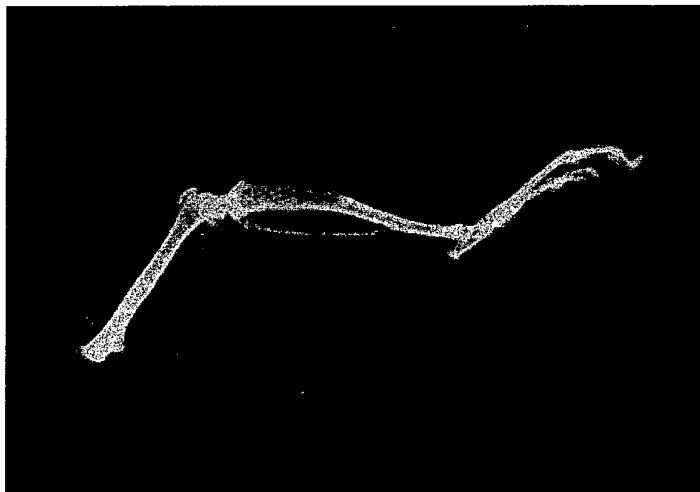


Fig. 7

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Fig. 8

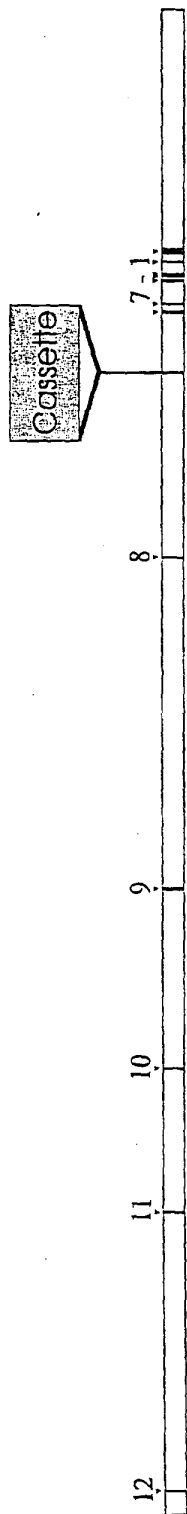
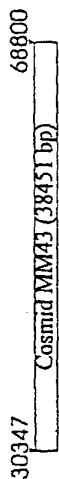
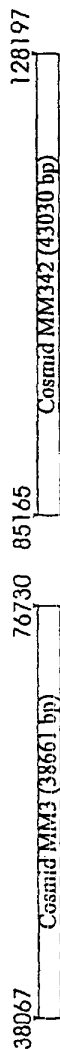
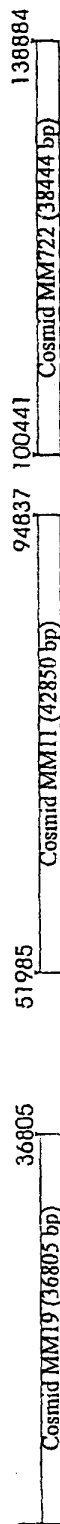


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A

Fig. 9

B



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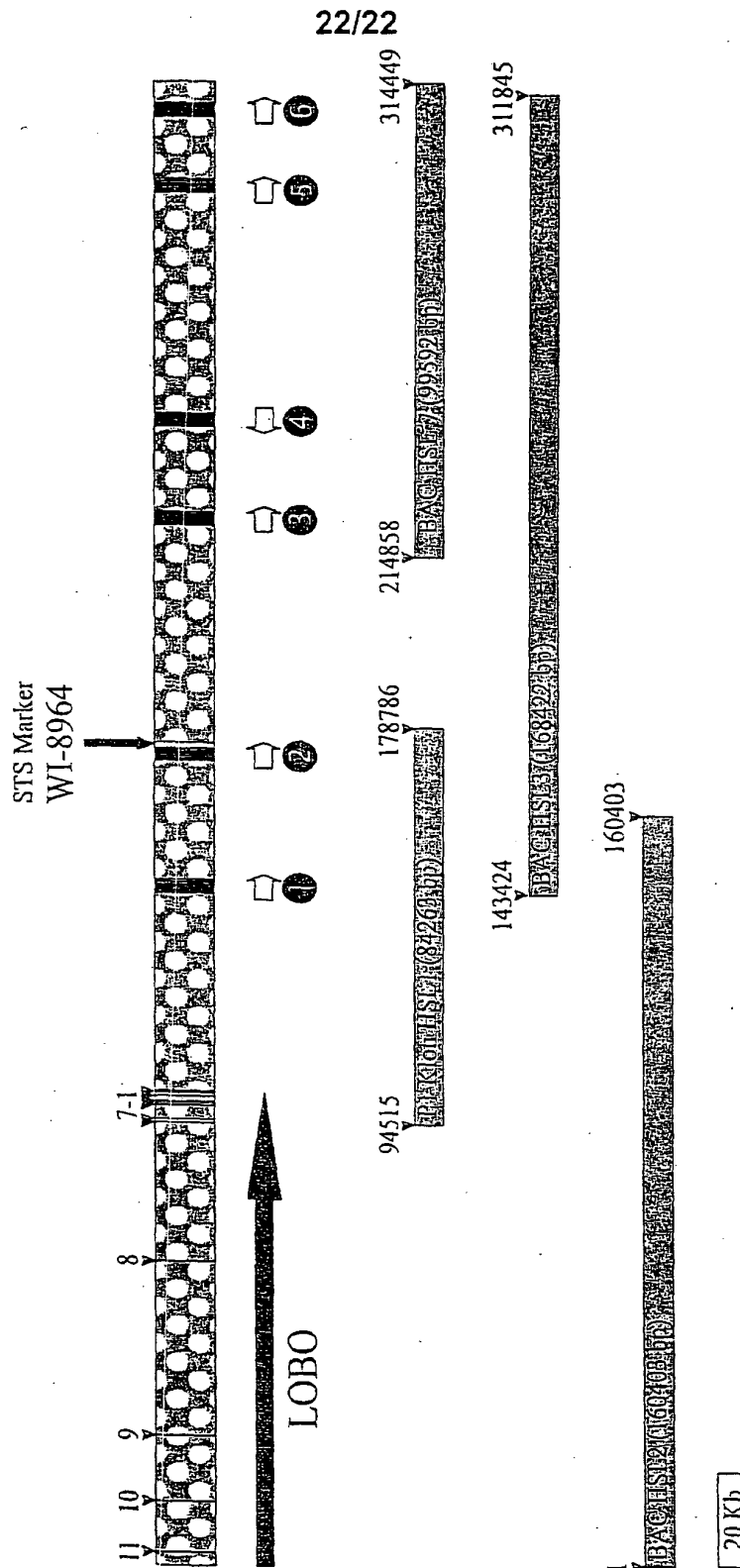


Fig. 10